

Claims

1. Base body for a drilling tool, in particular a re boring-roughing tool, whose front
5 surface region (14) can accommodate at least one cutting insert holder (2),
characterized in that at least one adjusting pin (4) connected to the base body (1)
axially overlaps the cutting insert holder (2) and/or the cutting insert (3, 3', 3''), so
that the radial adjustment of the cutting insert holder (2) with respect to the base
body (1) can be carried out by measuring the radial deviation (a) between a
10 defined point of the cutting insert holder (2) or the cutting insert (3, 3', 3'')
accommodated on the cutting insert holder (2) and the adjusting pin (4).
2. Base body according to Claim 1, characterized in that a N number of cutting insert
holders (2) can be accommodated on the base body (1) and N adjusting pins (4)
15 are provided, one of which is each associated with a cutting insert holder (2) and/or
a cutting insert (3).
3. Base body according to Claim 1, characterized in that the adjusting pin (4) is
centrally aligned with the axis of rotation of the tool.
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4. Base body according to any one of Claims 1 to 3, characterized in that the
adjusting pin (4) has a cylindrical form.
5. Base body according to Claim 3, characterized in that the adjusting pin (4) has the
25 cross section of a regular polygon with N angles, whereby N is the number of
cutting insert holders (2), which can be on the base body (1).
6. Base body according to any one of Claims 2 to 5, characterized in that N is an odd
number, preferably 3.
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7. Base body according to any one of Claims 1 to 6, characterized in that the front
surface (14) has at least one groove (15) running in the radial direction, which
groove is intended to accommodate a preferably longitudinal projection (17) of the
cutting insert holder (2) corresponding to the groove shape.
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8. Base body according to Claim 7, characterized in that the groove (15) has
an essentially U-shaped cross section.

- 5 9. Base body according to Claim 7 or 8, characterized in that the groove bottom has at least one projection (22), preferably in the form of a stud, which is intended to engage in a recess (23) in the cutting insert holder (2) and to limit the radial adjustment of the cutting insert holder (2).
- 10 10. Base body according to any one of Claims 1 to 9, characterized in that a device (5, 6) for supporting a cutting insert holder (2) on the front surface (14) is provided with variable retaining force.
- 15 11. Base body according to Claim 10, characterized in that the device (5, 6) for holding a cutting insert holder (2) consists of a screw (5), which is intended to reach through a longitudinal opening (7) in the cutting insert holder (2) and a spring, preferably a disk spring (6).
- 20 12. Base body according to any one of Claims 1 to 11, characterized in that a device (13, 13') is provided for axial adjustment of the cutting insert holder (2).
- 25 13. Base body according to Claim 12, characterized in that the device (13, 13') for the axial adjustment of the cutting insert holder (2) consists of shims (13, 13'), which are intended to be arranged between cutting insert holder (2) and front surface (14) of the base body (1).
- 30 14. Base body according to any one of Claims 1 to 13, characterized in that for each cutting insert holder (2) a device (21) is provided for the radial adjustment of the cutting insert holder (2).
- 35 15. Cutting insert holder for use with a base body (1) according to any one of Claims 1 to 14 with a seat for receiving a cutting insert (13, 13', 13''), characterized in that a bearing surface (19) for supporting the cutting insert holder (2) on the front surface (14) of a base body (1) of a drilling tool has a preferably longitudinal projection (17) overlapping the bearing surface (19) for engaging in a groove (15) arranged on the front surface (14).
- 35 16. Cutting insert holder according to Claim 15, characterized in that the cutting insert holder (2) has a device (21) for radial adjustment of the cutting insert holder (2) with respect to the base body (1).

- 5 17. Cutting insert holder according to Claim 16, characterized in that the device (21) for radial adjustment of the cutting insert holder (2) comprises a screw (21), which is intended to abut against a stop element (4, 22) firmly connected to the base body (1).
- 10 18. Cutting insert holder according to Claim 17, characterized in that the screw (21) in the longitudinal direction runs through at least one part of the longitudinal projection (17).
- 15 19. Cutting insert holder according to any one of Claims 15 to 18, characterized in that the projection (17) has a preferably oblong recess (23), which is arranged in such a manner that a projection (22) located on the groove bottom (15) of the front surface (14) of the drilling tool engages in the recess (23) and thus the radial adjustment of the cutting insert holder (2) in the groove (15) is limited at least in one direction.
- 20 20. Cutting insert holder according to Claim 19, characterized in that the projection (17) has a tapped hole (9), which in the longitudinal direction opens into the oblong recess (23).
- 25 21. Cutting insert holder according to any one of Claims 15 to 20, characterized in that a slotted hole (7) is provided for attaching the holder (2) to the base body (1) by means of a screw (5) extending through the slotted hole (7) and engaging in a threaded hole on the base body (1).
- 30 22. Cutting insert holder according to Claim 21, characterized in that on the side of the slotted hole (7) facing away from the front surface (14) a countersink (8) is provided to seat a disk spring (6) arranged between screw head (5) and slotted hole (7).
- 35 23. Drilling tool with a base body (1) according to any one of Claims 1 to 14 and at least one cutting insert holder (2) according to any one of Claims 15 to 22.
24. Drilling tool according to Claim 23, characterized in that three cutting insert holders (2) are provided.